

## CLAIMS

1. A solid electrolyte represented by a general formula:



where M is at least one element selected from the group consisting of Si, B, Ge, Al, C, Ga and S, and a, b, c, d and e respectively satisfy  $a = 0.62$  to  $4.98$ ,  $b = 0.01$  to  $0.99$ ,  $c = 0.01$  to  $0.99$ ,  $d = 1.070$  to  $3.985$ ,  $e = 0.01$  to  $0.50$ , and  $b+c = 1.0$ .

2. The solid electrolyte in accordance with claim 1, wherein said formula satisfies  $a = 0.62$  to  $2.98$ ,  $b = 0.01$  to  $0.99$ ,  $c = 0.01$  to  $0.99$ ,  $d = 1.070$  to  $3.965$ ,  $e = 0.01$  to  $0.50$ , and  $b+c = 1.0$ .

3. The solid electrolyte in accordance with claim 1, wherein said formula satisfies  $a = 1.61$  to  $2.99$ ,  $b = 0.01$  to  $0.99$ ,  $c = 0.01$  to  $0.99$ ,  $d = 2.060$  to  $3.975$ ,  $e = 0.01$  to  $0.50$ , and  $b+c = 1.0$ .

4. The solid electrolyte in accordance with claim 1, wherein said formula satisfies  $a = 1.61$  to  $2.99$ ,  $b = 0.01$  to  $0.99$ ,  $c = 0.01$  to  $0.99$ ,  $d = 3.050$  to  $3.985$ ,  $e = 0.01$  to  $0.50$ , and  $b+c = 1.0$ .

5. The solid electrolyte in accordance with claim 1, wherein said formula satisfies  $a = 2.6$  to  $3.0$ ,  $b = 0.01$  to  $0.99$ ,  $c = 0.01$  to  $0.99$ ,  $d = 2.60$  to  $3.975$ ,  $e = 0.01$  to  $0.50$ , and  $b+c = 1.0$ .

6. The solid electrolyte in accordance with claim 1, wherein said formula satisfies  $a = 2.61$  to  $3.99$ ,  $b = 0.01$  to  $0.99$ ,  $c = 0.01$  to  $0.99$ ,  $d = 3.050$  to  $3.985$ ,  $e = 0.01$  to  $0.50$ , and  $b+c = 1.0$ .

7. The solid electrolyte in accordance with claim 1, wherein said formula satisfies  $a = 2.62$  to  $4.98$ ,  $b = 0.01$  to  $0.99$ ,  $c = 0.01$  to  $0.99$ ,  $d = 3.050$  to  $3.985$ ,  $e = 0.01$  to  $0.50$ , and  $b+c = 1.0$ .

8. An all solid state battery comprising: a positive electrode; a negative electrode; and the solid electrolyte in accordance with claim 1 disposed between said positive electrode and said negative electrode.